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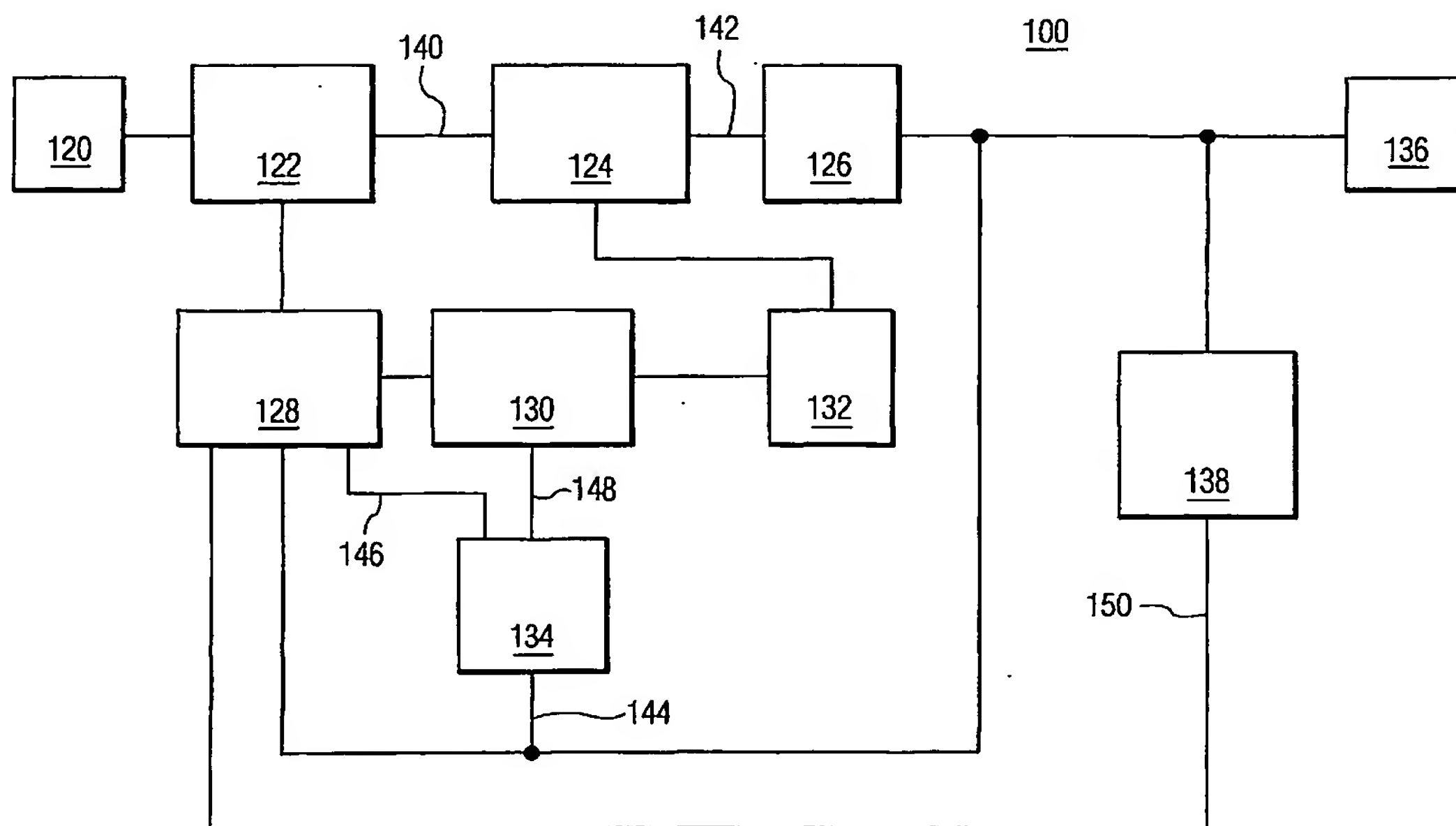
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(54) Title: ELECTRONIC BALLAST WITH LAMP TYPE DETERMINATION



(57) Abstract: The electronic ballast with lamp type determination for an electronic ballast providing power to a lamp filament 208 includes a filament current sensing circuit 220 operably connected to the lamp filament 208 and generating a sensed filament current signal, and a microprocessor U2 receiving the sensed filament current signal and operably connected to control the power to the lamp filament 208. The microprocessor U2 is programmed to heat the lamp filament by applying the power at a first frequency, measure the filament characteristics, and determine lamp type from the measured filament characteristics. The microprocessor U2 can also be programmed to update operating parameters for the electronic ballast to suit the determined lamp type.



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**Declarations under Rule 4.17:**

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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